Amendments to the Claims:

| 1 | 1. (canceled) |
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| 1 | 2. (canceled) |
| 1 | 3. (canceled) |
| 1 | 4. (canceled) |
| 1 | 5. (currently amended) A coaxial feedthrough connector for connecting an RF signal |
| 2 | through a wall in a hazardous environment, the connector comprising: |
| 3 | (a) a base having an axial passage defined by a passage interior surface, A |
| 4 | connector in accordance with claim 4 wherein the base having has a threaded |
| 5 | boss extending from the base and coaxially with the passage for connecting |
| б | the base to the wall or to:a conduit connected to the wall; |
| 7 | (b) a coaxial transmission line extending through the passage: |
| 8 | (c) a nonconductive sealing compound filling at least a longitudinal segment of |
| 9 | the passage and sealingly engaged to both the transmission line and to the |
| 10 | passage surface; and |
| 11 | (d) a coaxial connector mounted in an end of the passage for connection to a |
| 12 | coaxial cable, the coaxial connector being electrically connected to the |
| 13 | transmission line. |

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- 6. (original) A connector in accordance with claim 5 wherein a radome is mounted on the l
- base opposite the boss and an antenna radiating element is mounted within the radome 2
- and is electrically connected to the transmission line. 3
- 1 7. (canceled)
- 8. (previously presented) A coaxial feedthrough connector for connecting an RF signal 1
- through a wall in a hazardous environment, the connector comprising: 2
- (a) a base having an axial passage defined by a passage interior surface, the base 3
- comprising an outer base member and a coaxial insert mounted in a coaxial bore 4
- formed in the outer base member, the coaxial insert having a central passage 5
- coaxial with a central passage in the outer base member, the central passages 6
- 7 being contiguous and together forming said axial passage;
- (b) a coaxial transmission line extending through the passage; and 8
- (c) a nonconductive sealing compound filling at least a longitudinal segment of the 9
- passage and sealingly engaged to both the transmission line and to the passage 10
- surface 11
- wherein the central passage of the outer base member is smaller than the central 12
- passage of the insert and a coaxial cable connector is engaged in the end of the 13
- smaller central passage, and wherein the sealing compound extends into sealing 14
- contact with the coaxial cable connector. 15

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- 9. (original) A connector in accordance with claim 8 wherein an interior, annular 1
- shoulder is formed in the insert adjacent the central passage of the outer base member for 2
- increased sealant sealing area between the insert and the outer base member. 3
- 10. (original) A connector in accordance with claim 9 wherein the base has a threaded 1
- boss extending from the base and coaxially with the passage for connecting the base to 2
- the wall or to a conduit connected to the wall. 3
- 11. (original) A connector in accordance with claim 10 wherein a radome is mounted on 1
- the base opposite the boss and an antenna radiating element is mounted within the 2
- radome and is electrically connected to the transmission line. 3
- 12. (original) A connector in accordance with claim 11 wherein the sealing compound is 1
- a silicone sealing compound. 2
- 13. (original) A connector in accordance with claim 12 wherein the silicone sealing 1
- 2 compound is a two part, GE-RTV-627 compound.
- 14. (previously presented) A coaxial feedthrough connector for connecting an RF signal 1
- through a wall in a hazardous environment, the connector comprising: 2
- (a) a base having an axial passage defined by a passage interior surface; 3
- (b) a coaxial transmission line extending through the passage; and 4

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- (c) a nonconductive sealing compound filling at least a longitudinal segment of the 5 passage and sealingly engaged to both the transmission line and to the passage 6 7 surface,
- wherein a coaxial boss is formed at each opposite end of the base, a coaxial cable 8 connector is mounted in the boss at each end of the passage and each coaxial 9 connector is electrically connected to an opposite end of the transmission line and in 10 sealing contact with the sealing compound. 11
 - 15. (original) A connector in accordance with claim 14 wherein the sealing compound is 1 a silicone sealing compound.
 - 16. (original) A connector in accordance with claim 15 wherein the silicone sealing 1
 - compound is a two part, GE-RTV-627 compound. 2

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